First Named Inventor: Nurul Amin

Application No.: 10/671,809

TRANSDUCING HEAD <u>INCLUDING A MAGNETIC ELEMENT EXHIBITING</u>
<u>VARYING PERMEABILITY DESIGN WITH LOW ERASURE FIELD</u>

ABSTRACT OF THE DISCLOSURE

A transducing head has a main pole and at least one magnetic element (such as a return pole or a shield) which provides a potential return path for a magnetic field produced by the main pole. The magnetic element is spaced from the main pole. The magnetic element has a first edge closest to the main pole and a second edge furthest from the main pole. Permeability of the magnetic element increases from the first edge to the second edge.

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